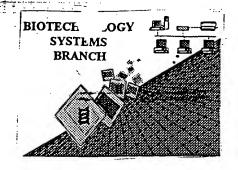
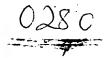
BEST AVAILABLE COPY

RAW SEQUENCE LISTING ERROR REPORT





- -

::

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	09/	676	249
	$\overline{}$		

Source: OIPE

Date Processed by STIC: 10-10-00

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin30help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

Kg

	ERROR DETECTED	SUGGESTED CO	RRECTION	•	SERIAL NUMBER: 📿	9/676,,	25
ATTN	: NEW RULES CASES: P						
1	Wrapped Nucleics	The number/text at the This may occur if your					
		Please adjust your right		-	_		
2	Wrapped Aminos				I " down to the next line.		
		This may occur if your Please adjust your right					
3	Incorrect Line Length	The rules require that a	line not exceed 72	characters in leng	th. This includes spaces.	. .	
4	Misaligned Amino Acid Numbering				is may be caused by the use and use spacing between		
5	Non-ASCII	This file was not saved	in ASCII (DOS) tex	xt, as required by t	he Sequence Rules.		
		Please ensure your sub	osequent submissio	on is saved in ASC	Il text so that it can be pro-	cessed.	
6	Variable Length	Sequence(s) conf		•			
		As per the rules, each r	•				
		Please present the max indicate in the (ix) feature.		•	-		
7	Patentin ver. 2.0 "bug"	sequence(s)	Normally, Pa	atentin would autor	section to be missing fror matically generate this section	tion from the	
			no acid sequence.	This applies prim	opy the relevant <220>-<2 narily to the mandatory <		
						÷	
8	Skipped Sequences (OLD RULES)	(2) INFORMATION FO	R SEQ ID NO:X:		wing format for each skipp idings under "SEQUENCE		CS")
		(xi) SEQUENCE DESC This sequence is inter	RIPTION:SEQ ID				,
		Please also adjust the "	(iii) NUMBER OF S	SEQUENCES:" res	sponse to include the skipp	ed sequence(s).	
9	Skipped Sequences (NEW RULES)	Sequence(s) miss <210> sequence id no		lease use the follo	wing format for each skipp	ed sequence.	
	(1.2.1.1.0.2.2.0)	<400> sequence id nu					
	,	000					
10	Use of n's or Xaa's	Use of n's and/or Xaa's	have been detected	d in the Sequence	Listing.		
	(NEW RULES)	Use of <220> to <223> In <220> to <223> section			resent. a, and which residue n or	Xaa represents.	
44	Alexanda 2042 Communication						
"	Use of <213>Organism (NEW RULES)	Sequence(s) a	ire missing this mai	ndatory field or its i	response.	. .	
12	Use of <220>Feature	Sequence(s) are n	nissing the <220>F	eature and associa	ated headings.		
	(NEW RULES)				ທ is "Artificial" or "Unknow	'n" -	. —
		Please explain source	_				
		(See "Federal Reg	ister," 6/01/98,	, Vol. 63, No. 1	104, pp. 29631-32)	(Sec. 1.823 of new	Rules
13	PatentIn ver. 2.0 "bug"				ersion 2.0. This causes a	•	

Instead, please use "File Manager" or any other means to copy file to floppy disk.

OIPE

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RAW SEQUENCE LISTING
                                                            DATE: 10/10/2000
                     PATENT APPLICATION: US/09/676,249
                                                            TIME: 16:31:41
                    Input Set : A:\PC10555A-SEQ-LIST.txt
                    Output Set: N:\CRF3\10102000\1676249.raw
      4 <110> APPLICANT: King, Kendall W
             Madura, Rebecca A
              Rosey, Everett L
     8 <120> TITLE OF INVENTION: NUCLEIC ACIDS AND PROTEINS OF THE MYCOPLASMA PNEUMONIAE
             mhp3 GENE AND USES THEREOF
    11 <130> FILE REFERENCE: PC10555
                                                                                   Doss Mos CowbiA
C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/676,249
                                                                              Corrected Diskette Needed
C--> 14 <141> CURRENT FILING DATE: 2000-09-29
    15 <150> PRIOR APPLICATION NUMBER: US 60/156,602
                                                                                see pp. 1, 2, 3
    16 <151> PRIOR FILING DATE: 1999-09-29
    18 <160> NUMBER OF SEQ ID NOS: 41
     20 <170> SOFTWARE: PatentIn Ver. 2.1
ERRORED SEQUENCES
    153 <210> SEQ ID NO: 3
154 <211> LENGTH 1263
    155 <212> TYPE: DNA
    156 <213> ORGANISM: Artificial Sequence
    158 <220> FEATURE:
    159 <223> OTHER INFORMATION: Description of Artificial Sequence: mhp3
              manipulated for in vitro expression
    160
    162 <400> SEQUENCE: 3
    163 atgtgggata aagaaacaac taaagaagaa aaatcagccg ataatcaaaa taagcaaatc 60
    164 actgatgtct caaaaatttc aggactagtt aatgaacgaa aatccgaaat tatggccgca 120
    165 aaagctgatg caaacaaaca ttttgggcta aatatggcaa ttgtaaccgc tggtggaacg 180
    166 gtaaatgata attoatttaa ccaatcargt tgggaggcaa ttcaacaact tggcgctctt 240
    167 actggaggtg agattacttc agtagatagt tcaactgctg aacttgaagg aaaatatagc 300
    168 tcacttgcta ataccaacaa aaatgtttgg gtactttctg gttttcaaca cggtgatgcg 360
    169 ttcacaagat ggttaaaaat ccctgaaaat aagcaattat ttactgaaaa aaatattatc 420
    170 atactcggaa ttgactggac tgatactgaa aatgtaattc caacaggtcg atatattaat 480
    171 ttaacctata aaactgaaga agccggatgg cttgcaggat atgcgaatgc ttcctttttg 540
    172 gcaaaaaaat tcccaagtga tccaactaaa agatcagcaa ttgttatcgg tggtgggatt 600
    173 togocagetg taactgattt tategetggt tatetageeg gaattaaage ttggaateta 660
    174 aaaaattotg ataaaaaaac aaagataaca actgataaaa togagataaa tottgggttt 720
    175 gatgttcaag atacttcaac aaaagaaaga cttgaacaaa ttgcttcaaa agataaacct 780
    176 teaacactat tagetgtege tggaccactt actgaaattt teteggatat aategeaaac 840
    177 caaaatgate gttateteat tggtgttgae accgaccaat caettgttta tacaaaaact 900
    178 aaaaataaat titteacete aattitgaaa aattiaggit aeteegitti eagegitett 960
    179 agtgatttat ataccaaaaa atcaaattca agaaatttag ccggctttga atttggtaaa 1020
    180 aaaagtgcaa ccgtttatct tggaattaaa gacaggtttg tcgatattgc tgatacttct 1080
    181 ttagaaggca atgataaaaa actcgcaact gaagccattt ctgaagctaa aaaagaattt 1140
    182 gaagaaaaa ctaagacaat teetgeegaa gaagttegta aaactttaga aatteeggaa 1200
    183 atgoctgata aacaacctga taagcaacag gaaagcttag acaaactaat taccgatatt 1260
                                                                                    Number of bases
E--> 184 aataatcta
                                                                                    conflict:
                                                                                    1263 listed
1269 shown
```

<210> 7 <211> 14 <212> PRT <213> Mycoplasma hyopneumoniae

<400>7 Ala Gly Xaa Trp Ala Lys Glu Thr Thr Lys Glu Glu Lys Ser 1 5 10 .

Missing mendatory <2207 to <223> features to explain "Xaa" in sequence. See #10.
On Error Summary Sheet.

<210> 10

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
 Oligonucleotide

<400> 10

tgytgrgona argara nac naargargar

30

Missing mendatory (220) to (223) features to explain "n's" in sequence. See #10 on Error Summary Sheet.

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.



DATE: 10/10/2000

TIME: 16:31:43

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/676,249

Input Set : A:\PC10555A-SEQ-LIST.txt
Output Set: N:\CRF3\10102000\1676249.raw

L:13 M:270 C: Current Application Number differs, Replaced Application Number L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:184 M:254 E: No. of Bases conflict, LENGTH:Input:1263 Counted:1269 SEQ:3 L:184 M:252 E: No. of Seq. differs, <211>LENGTH:Input:1263 Found:1269 SEQ:3 L:275 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:4 L:275 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:4 L:275 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:4 L:350 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:7 L:350 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:7 L:350 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:7 L:350 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:7 L:350 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:7 L:395 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:7 L:395 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:10 L:395 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:10 L:395 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:10 L:421 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:12 L:421 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:12 L:421 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:12 L:447 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:12 L:447 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:14 L:447 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:14 L:447 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:14 L:447 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:14 L:447 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:14 L:447 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:14 L:447 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:14 L:447 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:14 L:447 M:340 W